

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Christian VIAL et al.

Confirmation No.: 5096

Application No.: 10/680,138

Patent No.: 7,256,170 B2

Filing Date: October 8, 2003

Patent Date: August 14, 2007

For: SPIRO COMPOUNDS AS PERFUMING
INGREDIENTS

Attorney Docket No.: 81455-5780

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Patentees hereby respectfully request the issuance of a Certificate of Correction in connection with the above-identified patent. The corrections are listed on the attached Form PTO-1050. The corrections requested are as follows:

Title Page:

Item (56) **References Cited**, OTHER PUBLICATIONS, Novikova et al. reference, after "stereochemistry, and equilibrium ratios", insert -- of --. This change is requested to correct an error of a clerical or typographical nature.

Column 31:

Line 25 (claim 1, line 10 after formula (I)), after "the wavy and", change "doffed" to -- dotted --. Support for this change appears in application claim 1.

Column 33:

Line 14 (claim 9, line 7), change "tetramethyispiro" to -- tetramethylspiro -- .

Line 15 (claim 9, line 8), change "trimethyispiro" to -- trimethylspiro --.

Support for these changes appears in application claim 9.

Column 34:

Line 7, after "5]dec-7-en-1-ol, 8,9-dimethyl spiro[5,5]", change "unddec" to -- undec --.
Support for this change appears in application claim 14.

Line 59 (claim 18, line 1), before "compound according to claim 14", change "As" to -- A --. This change is requested to correct an error of a clerical or typographical nature and does not involve a change that would constitute new matter or require reexamination.

Column 36:

Line 24 (claim 19, line 7 after formula (I)), after " R^1 , R^2 ", change " R^2 " to -- R^3 --.
Support for this change appears in application claim 19.

A fee of \$100 is believed to be due for this request. Please charge the required fees to Winston & Strawn LLP Deposit Account No. 50-1814. Please issue a Certificate of Correction in due course.

Respectfully submitted,

8/30/07
Date

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212-294-3311

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO.: 7,256,170 B2
APPLICATION NO.: 10/680,138
DATED: August 14, 2007
INVENTOR(S): Vial et al.

Page 1 of 1

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Line 59, before "compound according to claim 14", change "As" to -- A --.

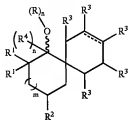
Column 36:

Line 24 (claim 19, line 7 after formula (I)), after "R¹, R²,", change "R²ⁿ" to -- R³ --.

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What is claimed is:

1. A composition comprising, as perfuming ingredient, at least one compound of formula



wherein the index m represents 0 or 1;

R represents a hydrogen atom, or a methyl or acetyl group;

R¹, R² and R⁴ represent a hydrogen atom or a methyl group;

R³ represents a hydrogen atom, or a methyl or ethyl group; two, three or four of all the R¹, R², R³ and

R⁴ representing simultaneously a group containing at least a carbon atom; and

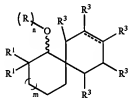
dotted the wavy and (dotted) lines represent a double bond, in which case n represents 0;

or

the wavy line represents a single bond, in which case the index n represents 1; and the dotted line represents a single or double bond;

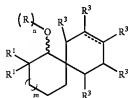
in the form of any one of its optical isomers or diastereomers or of a mixture thereof, and a perfume base.

2. A composition according to claim 1, wherein the perfuming ingredient is a compound of formula



wherein n, m, R, R¹, R³, the wavy line and the dotted line have the same meaning as indicated in claim 1.

3. A composition according to claim 1, wherein the perfuming ingredient is a compound of formula (II)



wherein the indexes m and n and the dotted and wavy lines have the same meaning as in claim 1; and

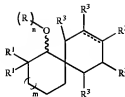
R represents a hydrogen atom or an acetyl group;

R¹ and R³ represent a hydrogen atom or a methyl group; two, three or four of all the R¹ and R³ representing simultaneously a methyl group and one, two or three of all the R³ representing simultaneously a methyl group.

4. A composition according to claim 1, wherein the perfuming ingredient is a compound of formula (II)

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(II)



wherein the indexes m and n and the dotted and wavy lines have the same meaning as in claim 1; and

R represents a hydrogen atom or an acetyl group;

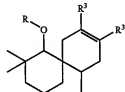
one R¹ is a hydrogen atom and the other R¹ represents a hydrogen atom or a methyl group;

R³ represents a hydrogen atom or a methyl or ethyl group; two, three or four of all the R¹ and R³ being a group

containing at least a carbon atom and one, two or three of all the R³, preferably non adjacent, representing a methyl or ethyl group.

5. A composition according to claim 1, wherein in that the perfuming ingredient is a compound of formula

(III)

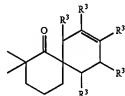


wherein R represents a hydrogen atom or an acetyl group; and

the R³ are identical and represent a hydrogen atom or the R³ are different and represent a hydrogen atom or a methyl group.

6. A composition according to claim 1, wherein the perfuming ingredient is a compound of formula

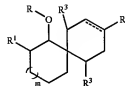
(IV)



wherein two R³ represent a methyl group and the other R³ represent a hydrogen atom.

7. A composition according to claim 1, wherein the perfuming ingredient is a compound of formula

(V)



wherein R represents a hydrogen atom or an acetyl group; R¹ represents a hydrogen atom or a methyl group; and

R³ represents a hydrogen atom or a methyl or ethyl group and at least two R³ represent a methyl group; and

m is 1 and the dotted line represents a single bond, or m is 0 and the dotted line represents a double bond.

8. A composition according to claim 1, wherein said composition comprises, as perfuming ingredient, 2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate, 2,2,11-trimethylspiro[5.5]undec-8-en-1-ol, or a mixture of 2,2,7,9-tetramethylspiro [5.5]undec-8-en-1-one and 2,2,8,10-tetramethylspiro[5.5]undec-8-en-1-one.

9. A composition according to claim 1, wherein said composition comprises, as perfuming ingredient, 2,2,11-trimethylspiro[5.5]undecan-1-ol, 2,2-dimethylspiro[5.5]undec-8-en-1-one, (1, 6RS,8SR,11SR)-2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate, (1RS,6RS,11RS)-2,2,11-trimethylspiro[5.5]undec-8-en-1-ol, (1RS,6RS,11RS)-2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate, 2,6,8-trimethylspiro[4.5]dec-7-en-1-ol or 7-ethyl-11-methylspiro [5.5]undecan-1-ol or a mixture of 2,2,10-trimethylspiro[5.5]undec-8-en-1-one and 2,2,7-trimethylspiro[5.5]undec-8-en-1-one or a mixture of 6,8-dimethylspiro[4.5]dec-7-en-1-yl acetate and 7,9-dimethylspiro[4.5]dec-7-en-1-yl acetate.

10. A composition consisting of at least a compound of formula (I), as defined in claim 1, and at least one perfumery carrier.

11. A perfumed article comprising:

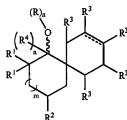
i) at least one compound of formula (I), as defined in claim 1; and

ii) a consumer product base.

12. A perfumed article according to claim 11, wherein said consumer product base is in the form of a solid or liquid detergent, a fabric softener, a perfume, a cologne, an after-shave lotion, a perfumed soap, a shower or bath salt, mousse, oil or gel, a hygiene product, a hair care product, a shampoo, a body-care product, a deodorant, an antiperspirant, an air freshener, a cosmetic preparation, a fabric refresher, an ironing water, a paper, a wipe or a bleach.

13. A method to confer, enhance, improve or modify the odor properties of a perfuming composition or of a perfumed article, which method comprises adding to said composition or article an effective amount of a composition of claim 1 or at least a compound of formula (I) as defined in claim 1.

14. A compound of formula (I)



wherein the index m represents 0 or 1;

R represents a hydrogen atom, or a methyl or acetyl group;

R¹, R² and R⁴ represent a hydrogen atom or a methyl group;

R³ represents a hydrogen atom, or a methyl or ethyl group; two, three or four of all the R¹, R², R³ and R⁴ representing simultaneously a group containing at least a carbon atom; and

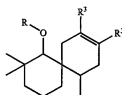
the wavy and dotted lines represent a double bond, in which case n represents 0;

or

the wavy line represents a single bond, in which case the index n represents 1; and the dotted line represents a single or double bond;

in the form of any one of its optical isomers or diastereomers or of a mixture thereof, provided that 2,8-dimethyl spiro[5.5]undec-8-en-1-one, 2,9-dimethyl spiro [5.5]undec-8-en-1-one, 1,9 dimethyl spiro[5.5]undec-8-en-1-ol, 1,8-dimethyl spiro[5.5]undec-8-en-1-ol, 1,7-dimethyl spiro[4.5]dec-7-en-1-ol, 1,8-dimethyl spiro[4.5]dec-7-en-1-ol, 8,9-dimethyl spiro[5.5]undec-8-en-1-one and 7,8-dimethyl spiro[4.5]dec-7-en-1-one are excluded.

15. A compound according to claim 14, of formula

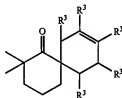


(III)

wherein R represents a hydrogen atom or an acetyl group; and

the R³ are identical and represent a hydrogen atom or the R³ are different and represent a hydrogen atom or a methyl group.

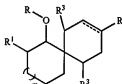
16. A compound according to claim 14, of formula



(IV)

wherein two R³ represent a methyl group and the other R³ represent a hydrogen atom.

17. A compound according to claim 14, of formula



(V)

wherein R represents a hydrogen atom or an acetyl group;

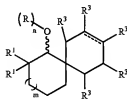
R¹ represents a hydrogen atom or a methyl group; and

R² represents a hydrogen atom or a methyl or ethyl group and at least two R³ represent a methyl group; and m is 1 and the dotted line represents a single bond, or m is 0 and the dotted line represents a double bond.

18. A compound according to claim 14, 2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate, 2,2,11-trimethylspiro[5.5]undec-8-en-1-ol, 2,2,11-trimethylspiro[5.5]undecan-1-ol, 2,2-dimethylspiro[5.5]undec-8-en-1-one, (1RS,6SR,11SR)-2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate, (1RS,6RS,11RS)-2,2,11-trimethylspiro[5.5]undec-8-en-1-ol, 2,6,8-trimethylspiro[4.5]dec-7-en-1-ol, 7-ethyl-11-methylspiro[5.5]undecan-1-ol or (1RS,6RS,11RS)-2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate.

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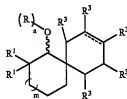
19. A compound according to claim 14, of formula (II)



wherein:

the indexes m and n each individually represents 0 or 1;
 R represents a hydrogen atom, or an acetyl group;
 R¹ and R³ represent a hydrogen atom or a methyl group;
 two, three or four of all the R¹ and R³ representing
 simultaneously a methyl group and one, two or three of
 all the R³ representing simultaneously a methyl group;
 R² and R⁴ represent a hydrogen atom or a methyl group;
 the wavy and dotted lines represent a double bond, in
 which case n represents 0; or
 the wavy line represents a single bond, in which case the
 index n represents 1; and the dotted line represents a
 single or double bond.

20. A compound according to claim 14, of formula (II)



wherein:

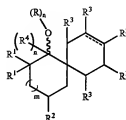
the indexes m and n each individually represents 0 or 1;
 R represents a hydrogen atom, or an acetyl group;
 one R¹ is a hydrogen atom and the other R¹ represents a
 hydrogen atom or a methyl group;
 R³ represents a hydrogen atom or a methyl or ethyl group;
 two, three or four of all the R¹ and R³ being a group
 containing at least a carbon atom and one, two or three
 of all the R³, preferably non adjacent, representing a
 methyl or ethyl group;
 the wavy and dotted lines represent a double bond, in
 which case n represents 0; or

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the wavy line represents a single bond, in which case the
 index n represents 1; and the dotted line represents a
 single or double bond.

21. A composition of at least two compounds of formula

(I):



wherein the index m represents 0 or 1;

R represents a hydrogen atom, or a methyl or acetyl group;

R¹, R² and R⁴ represent a hydrogen atom or a methyl group;R³ represents a hydrogen atom, or a methyl or ethyl group; two, three or four of all the R¹, R² andR⁴ representing simultaneously a group containing at least a carbon atom; and

the wavy and dotted lines represent a double bond, in which case n represents 0;

or

the wavy line represents a single bond, in which case the index n represents 1; and the dotted line represents a single or double bond;

in the form of any one of its optical isomers or diastereomers or of a mixture thereof, provided that the compositions consisting of 2,8-dimethyl spiro[5.5]undec-8-en-1-one and 2,9-dimethyl spiro[5.5]undec-8-en-1-one, or 1,9-dimethyl spiro[5.5]undec-8-en-1-ol and 1,8-dimethyl spiro[5.5]undec-8-en-1-ol, or 1,7-dimethyl spiro[4.5]dec-7-en-1-ol and 1,8-dimethyl spiro[4.5]dec-7-en-1-ol are excluded.

22. As a composition according to claim 21, a composition containing essentially 2,2,7,9-tetramethylspiro[5.5]undec-8-en-1-one and 2,2,8,10-tetramethylspiro[5.5]undec-8-en-1-one, or a composition containing essentially 2,2,10-trimethylspiro[5.5]undec-8-en-1-one and 2,2,7-trimethylspiro[5.5]undec-8-en-1-one or a composition containing essentially 6,8-dimethylspiro[4.5]dec-7-en-1-yl acetate and 7,9-dimethylspiro[4.5]dec-7-en-1-yl acetate.

* * * * *